

### Abstract of the Disclosure

An anodizing system for forming an anodized coating on at least a portion of a substrate thereby creating an anodized substrate is disclosed. The anodizing system includes a bath, a coating thickness monitor, at least one probe and at least one  
5 controller. The coating thickness monitor includes at least one radiation source directed at at least a portion of the anodized substrate; at least one probe for capturing at least a portion of the radiation reflected and refracted by the anodized coating on the anodized substrate, the captured radiation being at least a portion of the radiation directed the anodized substrate from the radiation source; and at least one detector in  
10 communication with the at least one probe, the at least one detector capable of processing the captured radiation to allow a determination of at least the thickness.